

Notice of Allowability

Application No.

10/658,335

Examiner

DUC Q. DINH

Applicant(s)

SHIMOYAMA ET AL.

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/28/07.
2. ☒ The allowed claim(s) is/are 2-4, 6-11 and 16-21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____.
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date ____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.



EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel Glueck on April 24, 2007.

The application has been amended as follows:

2. (Currently Amended) The system according to claim 7, wherein said display unit has an optical see through structure, and the user can observe [a] the real space via said display unit.

3. (Currently Amended) The system according to claim 7, further comprising: a first image taking device for obtaining a video of [[a]] the real space observed from a viewpoint of the user, and

wherein said composition unit displays the video obtained by said first image taking device on said display unit, and superimposes the other image on the display region determined by said determination unit.

7. (Currently Amended) The system according to claim 1, An image composition system for compositing a real image in a line-of-sight direction of a user with another image, said system comprising:

a display unit which is wearable on a head of the user, and displays a composite image;
a position sensor for detecting the line-of-sight direction of the user, and outputting line-of-sight information;

a determination unit for determining a display region where the other image is to be displayed, in accordance with the line-of-sight information; and

a composition unit for compositing the other image on the determined display user, and space; and

wherein the other image is used to display information that helps operations of the wherein said determination unit comprises:

(a) a setting unit for setting a space region for displaying the other image in ~~[[the]]~~ a real space; and

(b) a conversion unit for converting the space region set by said setting unit into the display region on said display unit on the basis of a position and posture of the user.

17. (Currently Amended) An information processing method of displaying a composite image of a real image in a line-of-sight direction of a user and another image on a display unit which is wearable on a head of the user, said method comprising the steps of:

detecting the line-of-sight direction of the user, and outputting line-of-sight information; determining a display region where the other image is to be displayed, in accordance with the line-of-sight information; and

compositing the other image on the determined display region, wherein the other image is used to display information that helps operations of the user, wherein said determining step comprises:

(a) a setting step of setting a space region for displaying the other image in ~~[[the]]~~ a real space; and

(b) a converting step of converting the space region set by said setting step into the display region on the display unit on the basis of a position and posture of the user.

Response to Arguments

2. Applicant's arguments, see page 8 of the Remarks, filed 03/26/07, with respect to the 112 First paragraph applied to claim 11 have been fully considered and are persuasive. The 112 First paragraph Rejection as applied to of claim 11 has been withdrawn.

Allowable Subject Matter

3. Claims 2-4, 6-11 and 16-21 are allowed and renumbered as 1-15.

The following is an examiner's statement of reasons for allowance:

Claims 2-4, 6-11 are allowable for the reason stated in the Office Action mailed on December 26, 2006; in addition, claims 16-21 are allowable as being method claims of associated apparatus claims 2-4 and 6-11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUC Q. DINH whose telephone number is (571) 272-7686. The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD HJERPE can be reached on (571)272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit 2629

